

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-2 (canceled).

Claim 3 (currently amended): A projection system comprising:
an oscillating mirror;

a laser light source, wherein a projection light bundle is produced starting from the laser light source using the oscillating mirror, and ~~wherein by~~

at least one light sensor ~~is arranged at the~~ an edge region of the projection light bundle ~~and that detects the~~ a position of the oscillating mirror using a modulated brightness level obtained from the at least one light sensor.

Claim 4 (currently amended): The projection system as claimed in claim 3, wherein the brightness of the projection light bundle is modulated at least in a partial region of an image to be projected, and the position of the oscillating mirror is determined by correlating the modulation of the projection light bundle ~~and of~~ with a detector signal from the light sensor.

Claim 5 (currently amended): A method for operating a projection system, comprising:

~~obtaining a brightness level from a light sensor;~~

modulating ~~the~~ a brightness level at least in a partial region of an image to be projected in the projection system;

obtaining the modulated brightness level from a light sensor; and

detecting the an oscillation status and a position of an oscillating mirror using the modulated brightness level obtained from the light sensor.

Claim 6 (currently amended): The method according to claim 5, wherein the position of the oscillating mirror is determined by correlating the ~~modulation~~ modulated brightness level with a detector signal generated from the light sensor.